

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 2004/001589

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A61K 31/437, A61P 1/04

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, EMBASE, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9955706 A1 (ASTRA AKTIEBOLAG), 4 November 1999 (04.11.1999) --	1-18
X	KAMINSKI, James J. et al, "Antiulcer Agents. 4. Conformational Considerations and the Antiulcer Activity of Substituted Imidazo(1,2-a)pyridines and Related Analogues", J. Med. Chem., 1989, vol. 32, page 1686 - page 1700 --	1-18
X	WO 0017200 A1 (BYK GULDEN LOMBERG CHEMISCHE FABRIK GMBH), 30 March 2000 (30.03.2000) --	19



Further documents are listed in the continuation of Box C.



See patent family annex.

\* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

24 February 2005

Date of mailing of the international search report

25 -02- 2005

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### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 1-3, 12-14  
because they relate to subject matter not required to be searched by this Authority, namely:  
Claims 1-3, 12-14 relate to a method of treatment of the human or animal body by surgery or by therapy, as well as diagnostic  
.../...
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

### Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

#### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

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Box II.1

methods /Rule 39.1(iv). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compound(s)/product/device.

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## C (Continuation): DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	VAKIL, N., "Review article: new pharmacological agents for the treatment of gastro-oesophageal reflux disease", Aliment Pharmacol Ther, 2004, vol. 19, page 1041 - page 1049 --	1-19
X	SACHS, George et al, "Current trends in the treatment of upper gastrointestinal disease", Best Practice & Research Clinical Gastroenterology, 2002, vol. 16, no. 6, page 835 - page 849 --	1-19
X	WURST, Wilhelm et al, "Current Status of Acid Pump Antagonists (Reversible PPIs)", Yale journal of biology and medicine, 1996, vol. 69, page 233 - page 243 --	1-19
X	POPE, Andrew J. et al, "Reversible inhibitors of the gastric (H <sup>+</sup> /K <sup>+</sup> )-ATPase as both potential therapeutic agents and probes of pump function", Biochemical Society Transactions, 1992, vol. 20, page 566 - page 572 --	1-19
X	WALLMARK, Björn et al, "Inhibition of Gastric H <sup>+</sup> ,K <sup>+</sup> -ATPase and Acid Secretion by SCH 28080, a Substituted Pyridyl(1,2alpha)imidazole", The Journal of Biological Chemistry, 15 February 1987, page 2077 - page 2084 -- -----	1-19

INTERNATIONAL SEARCH REPORT  
Information on patent family members

30/01/2005

International application No.

PCT/SE 2004/001589

WO	9955706	A1	04/11/1999	AT	230985	T	15/02/2003
				AU	727349	B	14/12/2000
				AU	769108	B	15/01/2004
				AU	769190	B	22/01/2004
				AU	4300699	A	16/11/1999
				AU	4300799	A	16/11/1999
				AU	9098998	A	22/03/1999
				BR	9909995	A	26/12/2000
				BR	9909996	A	26/12/2000
				CA	2299366	A	11/03/1999
				CA	2329921	A	04/11/1999
				CA	2329922	A	04/11/1999
				CN	1306533	T	01/08/2001
				CN	1307577	T	08/08/2001
				CZ	292567	B	15/10/2003
				CZ	293977	B	15/09/2004
				CZ	20003981	A	14/03/2001
				CZ	20003982	A	14/02/2001
				DE	69810784	D,T	13/11/2003
				DK	1011653	T	26/05/2003
				EE	200000626	A	15/04/2002
				EE	200000664	A	15/04/2002
				EP	1011653	A,B	28/06/2000
				SE	1011653	T3	
				EP	1073656	A	07/02/2001
				EP	1073657	A	07/02/2001
				EP	1491542	A	29/12/2004
				EP	1491543	A	29/12/2004
				HU	0102313	A	28/12/2001
				HU	0102425	A	28/11/2001
				ID	26819	A	00/00/0000
				ID	27530	A	00/00/0000
				IL	139200	D	00/00/0000
				IL	139297	D	00/00/0000
				JP	2001514215	T	11/09/2001
				JP	2002513024	T	08/05/2002
				JP	2002513025	T	08/05/2002
				NO	20001087	A	02/03/2000
				NO	20005450	A	22/12/2000
				NO	20005451	A	27/12/2000
				NZ	507638	A	31/10/2003
				NZ	507639	A	30/01/2004
				PL	338982	A	04/12/2000
				PL	343797	A	10/09/2001
				PL	343801	A	10/09/2001
				RU	2235725	C	10/09/2004
				RU	2238271	C	20/10/2004
				SE	9801526	D	00/00/0000
				SK	14912000	A	11/06/2001
				SK	14922000	A	11/06/2001
				TR	200003149	T	00/00/0000
				TR	200003176	T	00/00/0000
				TR	200102612	T	00/00/0000
				TR	200102728	T	00/00/0000
				TW	490466	B	00/00/0000

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Information on patent family members

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WO	9955706	A1	04/11/1999	US	6245818	B	12/06/2001
				US	6313136	B	06/11/2001
				US	6313137	B	06/11/2001
				WO	9955705	A	04/11/1999
				ZA	200005796	A	18/01/2002
				ZA	200005797	A	18/01/2002
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WO	0017200	A1	30/03/2000	AT	231862	T	15/02/2003
				AU	763463	B	24/07/2003
				AU	6192099	A	10/04/2000
				BG	105270	A	30/11/2001
				BR	9914044	A	04/12/2001
				CA	2344251	A	30/03/2000
				CN	1319101	T	24/10/2001
				CZ	292335	B	17/09/2003
				CZ	20011082	A	12/09/2001
				DE	69905178	D,T	17/07/2003
				DK	1115725	T	23/06/2003
				EE	200100172	A	17/06/2002
				EP	1115725	A,B	18/07/2001
				SE	1115725	T3	
				ES	2191464	T	01/09/2003
				HK	1038360	A	00/00/0000
				HR	20010224	A	30/04/2002
				HU	0102990	A	28/01/2002
				ID	28896	A	00/00/0000
				IL	142063	D	00/00/0000
				JP	2002526499	T	20/08/2002
				NO	20011243	A	12/03/2001
				NZ	510610	A	25/07/2003
				PL	346617	A	25/02/2002
				PT	1115725	T	30/06/2003
				SI	1115725	T	00/00/0000
				SK	3992001	A	03/12/2001
				TR	200100805	T	00/00/0000
				US	6436953	B	20/08/2002
				US	6696460	B	24/02/2004
				US	20020169320	A	14/11/2002
				US	20040162310	A	19/08/2004
				ZA	200102107	A	02/05/2002